SUBJECT INDEX

Accuracy

GPS-Guided Vision Systems for Real-Time Surveying, Kam W. Wong, Anthony G. Wiley and Michael Lew, SU May 89 p243-251.

Precision in Cross-Sectional Area Calculations on Earthwork Determination, Youssuf M. Siyam, SU Oct. 87 p139-151.

aerotriangulation

Recent Advances in Kinematic GPS Photogrammetry, James R. Lucas and Gerald L. Mader, SU Feb. 89 p78-92.

Algorithms

PMCAD: Photogrammetric-Based CAD System for Traffic Accident Mapping, T K. Koo, SU Aug. 89 p330-336.

Analysis

Analytical Solution of Magnetic Declination Problem, Said M. Easa, SU Aug. 89 p324-329.

Analytical techniques

Analytical Solution of Magnetic Declination Problem, Said M. Easa, SU Aug. 89 p324-329.

Antennas

GPS Antenna Design Characteristics for High-Precision Applications, James M. Tranquilla and Bruce G. Colpitts, SU Feb. 89 p2-14.

GPS Antenna—Field Operation Aspects, David H. Minkel, SU Aug. 89 p297-303.

Kinematic GPS Land Survey—Description of Operational Test and Results, David H. Minkel, SU Feb. 89 p121-137.

Approximation methods

Precision in Cross-Sectional Area Calculations on Earthwork Determination, Youssuf M. Siyam, SU Oct. 87 p139-151.

Azimuth

Analytical Solution of Magnetic Declination Problem, Said M. Easa, SU Aug. 89 p324-329.

Bench marks

GPS Satellite Surveys and Vertical Control, David B. Zilkoski and Larry D. Hothem, SU May 89 p262-281.

Benefit cost analysis

Practical Applications of Global Positioning System, Bruce R. Blair, SU May 89 p218-222.

Boundaries, property

General Direct Method for Land Subdivision, Said M. Easa, SU Nov. 89 p402-411.

Cameras

GPS-Guided Vision Systems for Real-Time Surveying, Kam W. Wong, Anthony G. Wiley and Michael Lew, SU May 89 p243-251.

Computation

Irregular Boundary Area Computation by Simpson's 3/8 Rule, Ismat M. El Hassan, SU Oct. 87 p127-132.

Computer aided drafting (CAD)

PMCAD: Photogrammetric-Based CAD System for Traffic Accident Mapping, T. K. Koo, SU Aug. 89 p330-336.

Computer applications

Application of Graph Theory to Computer-Assisted Mapping, Xiao-Guang Qi and B. Kent Lall, SU Nov. 89 p380-389.

Developments of Geographic Information Systems Technology, Y. C. Lee and G. Y. Zhana, SU Aug. 89 p304-323.

Computer hardware

Developments of Geographic Information Systems Technology, Y. C. Lee and G. Y. Zhana, SU Aug. 89 p304-323.

Computer programs

General Direct Method for Land Subdivision, Said M. Easa, SU Nov. 89 p402-411.

Computer software

Developments of Geographic Information Systems Technology, Y. C. Lee and G. Y. Zhana, SU Aug. 89 p304-323.

GPS Geodesy and Kinematic Topography Measurements and Results, Georges Pierre Nard and Lynn Weems, SU May 89 p166-180.

Integrated Processing of GPS and Gravity Data, Günter W. Hein, Alfred Leick and Steven Lambert, SU Feb. 89 p15-33.

Surveying With Motorola Eagle GPS Receiver, I. Newton Durboraw, III and Joseph C. Sligo, SU May 89 p252-261.

Computerized design

PMCAD: Photogrammetric-Based CAD System for Traffic Accident Mapping, T. K. Koo, SU Aug. 89 p330-336.

Coordinates

Fundamentals of GPS Baseline and Height Determinations, James Collins, SU May 89 p223-235.

General Direct Method for Land Subdivision, Said M. Easa, SU Nov. 89 p402-411.

Coordination

GPS Satellite Surveys and Vertical Control, David B. Zilkoski and Larry D. Hothem, SU May 89 p262-281.

Cost effectiveness

Fundamentals of GPS Baseline and Height Determinations, James Collins, SU May 89 p223-235.

Cross sections

Precision in Cross-Sectional Area Calculations on Earthwork Determination, Youssuf M. Siyam, SU Oct. 87 p139-151.

Dams

Continuous Deformation Monitoring with GPS, Stephen R. DeLoach, SU Feb. 89 p93-110.

Data collection

Strategic Planning Tool for GPS Surveys, Ronald R. Hatch and Earl V. Avery, SU May 89 p207-217.

Deformation

Continuous Deformation Monitoring with GPS, Stephen R. DeLoach, SU Feb. 89 p93-110.

Pipeline Deformation Monitoring Using GPS Survey Techniques, James F. McLellan, Todd R. Porter and P. St. J. Price, SU Feb. 89 p56-66.

Developing countries

Selection of GPS Receiver for Survey Applications, Ibrahim Al-Kadi, SU Feb. 89 p111-120.

Digital mapping

Developments of Geographic Information Systems Technology, Y. C. Lee and G. Y. Zhana, SU Aug. 89 p304-323.

Distance measuring equipment

Free Tension Concept for Precise Taping, Said M. Easa, SU Nov. 89 p418-421.

Earthwork

Precision in Cross-Sectional Area Calculations on Earthwork Determination, Youssuf M. Siyam, SU Oct. 87 p139-151.

Elevation

Fundamentals of GPS Baseline and Height Determinations, James Collins, SU May 89 p223-235.

Engineering

Engineering Applications of GPS Differential Surveying, Angela Beckmann, Hans-Jüurgen Larisch, Otmar Schuster and Klaus Barwinski, SU Aug. 89 p337-346.

Equipment

GPS Antenna—Field Operation Aspects, David H. Minkel, SU Aug. 89 p297-303.

Errors

GPS Antenna—Field Operation Aspects, David H. Minkel, SU Aug. 89 p297-303.

Estimating

Estimating Pit Excavation Volume Using Unequal Intervals, Daniel W. Chambers, SU Nov. 89 p390-401.

Evaluation

GPS Processing Methods: Comparison with Precise Trilateration, Norman Beck, J. Robert Duval and Peter T. Taylor, SU May 89 p181-197.

Excavation

Estimating Pit Excavation Volume Using Unequal Intervals, Daniel W. Chambers, SU Nov. 89 p390-401.

Federal government

History and Method of Indian Allotment Surveys, Leroy K. Latta, Jr., SU Nov. 89 p362-372.

Florida

Combined Photogeodesy and GPS Network, Leonard P. Wood, SU Feb. 89 p168-171.

Frames

Important Parameters Used in Geodetic Transformations, Tomás Soler and Larry D. Hothem, SU Nov. 89 p414-417.

Geodesy

Combined Photogeodesy and GPS Network, Leonard P. Wood, SU Feb. 89 p168-171.

Development of a GPS Active Control Point Station, See Hean Quek, M. Craymer, R. B. Langley, D. Parkhill, D. Arseneau, D. McArthur and K. Lochhead, SU Feb. 89 p46-55.

Differential GPS: Efficient Tool in Photogrammetry, Jan Willem van der Vegt, SU Aug. 89 p285-296.

Fundamentals of GPS Baseline and Height Determinations, James Collins, SU May 89 p223-235.

GPS Geodesy and Kinematic Topography Measurements and Results, Georges Pierre Nard and Lynn Weems, SU May 89 p166-180.

GPS Satellite Surveys and Vertical Control, David B. Zilkoski and Larry D. Hothem, SU May 89 p262-281.

Important Parameters Used in Geodetic Transformations, Tomás Soler and Larry D. Hothem, SU Nov. 89 p414-417.

Integrated Processing of GPS and Gravity Data, Günter W. Hein, Alfred Leick and Steven Lambert, SU Feb. 89 p15-33.

Monitoring Crustal Deformation in Eastern Maine Using GPS, Steven R. Lambert and David A. Tyler, SU Feb. 89 p138-148.

Pipeline Deformation Monitoring Using GPS Survey Techniques, James F. McLellan, Todd R. Porter and P. St. J. Price, SU Feb. 89 p56-66.

Geodetic surveys

Continuous Deformation Monitoring with GPS, Stephen R. DeLoach, SU Feb. 89 p93-110.

Development of a GPS Active Control Point Station, See Hean Quek, M. Craymer, R. B. Langley, D. Parkhill, D. Arseneau, D. McArthur and K. Lochhead, SU Feb. 89 p46-55.

Establishment of the Kansas City GPS Control Network, Robert L. Wethington and Joseph V. R. Paiva, SU May 89 p236-242.

Fundamentals of GPS Baseline and Height Determinations, James Collins, SU May 89 p223-235.

GPS Antenna Design Characteristics for High-Precision Applications, James M. Tranquilla and Bruce G. Colpitts, SU Feb. 89 p2-14.

GPS Determination of Ground Water Withdrawal Subsidence, William E. Strange, SU May 89 p198-206.

GPS Geodesy and Kinematic Topography Measurements and Results, Georges Pierre Nard and Lynn Weems, SU May 89 p166-180.

GPS Processing Methods: Comparison with Precise Trilateration, Norman Beck, J. Robert Duval and Peter T. Taylor, SU May 89 p181-197.

GPS Satellite Surveys and Vertical Control, David B. Zilkoski and Larry D. Hothem, SU May 89 p262-281.

Important Parameters Used in Geodetic Transformations, Tomás Soler and Larry D. Hothem, SU Nov. 89 p414-417.

Kinematic GPS Land Survey—Description of Operational Test and Results, David H. Minkel, SU Feb. 89 p121-137.

Kinematic Survey of Clinton Lake Dam, Clyde C. Goad, SU Feb. 89 p67-77.

Monitoring Crustal Deformation in Eastern Maine Using GPS, Steven R. Lambert and David A. Tyler, SU Feb. 89 p138-148.

Pipeline Deformation Monitoring Using GPS Survey Techniques, James F. McLellan, Todd R. Porter and P. St. J. Price, SU Feb. 89 p56-66.

Practical Applications of Global Positioning System, Bruce R. Blair, SU May 89 p218-222.

Simultaneous Orbit and Network Adjustment in Tennessee, Yehuda Bock and Jonathan W. Ladd, SU Feb. 89 p34-45.

Surveying With Motorola Eagle GPS Receiver, I. Newton Durboraw, III and Joseph C. Sligo, SU May 89 p252-261.

Geographic information systems

Developments of Geographic Information Systems Technology, Y. C. Lee and G. Y. Zhana, SU Aug. 89 p304-323.

Important Parameters Used in Geodetic Transformations, Tomás Soler and Larry D. Hothem, SU Nov. 89 p414-417.

Geoid

Integrated Processing of GPS and Gravity Data, Günter W. Hein, Alfred Leick and Steven Lambert, SU Feb. 89 p15-33.

Global positioning

Combined Photogeodesy and GPS Network, Leonard P. Wood, SU Feb. 89 p168-171.

Continuous Deformation Monitoring with GPS, Stephen R. DeLoach, SU Feb. 89 p93-110.

Development of a GPS Active Control Point Station, See Hean Quek, M. Craymer, R. B. Langley, D. Parkhill, D. Arseneau, D. McArthur and K. Lochhead, SU Feb. 89 p46-55.

Differential GPS: Efficient Tool in Photogrammetry, Jan Willem van der Vegt, SU Aug. 89 p285-296.

Effect of Orbital A Priori Information on Baseline Determinations, Kamil Eren, SU Feb. 89 p149-159.

Engineering Applications of GPS Differential Surveying, Angela Beckmann, Hans-Jürgen Larisch, Otmar Schuster and Klaus Barwinski, SU Aug. 89 p337-346.

Establishment of the Kansas City GPS Control Network, Robert L. Wethington and Joseph V. R. Paiva, SU May 89 p236-242.

Fundamentals of GPS Baseline and Height Determinations, James Collins, SU May 89 p223-235.

GPS Antenna Design Characteristics for High-Precision Applications, James M. Tranquilla and Bruce G. Colpitts, SU Feb. 89 p2-14.

GPS Antenna—Field Operation Aspects, David H. Minkel, SU Aug. 89 p297-303.

GPS Determination of Ground Water Withdrawal Subsidence, William E. Strange, SU May 89 p198-206.

GPS Geodesy and Kinematic Topography Measurements and Results, Georges Pierre Nard and Lynn Weems, SU May 89 p166-180.

GPS Processing Methods: Comparison with Precise Trilateration, Norman Beck, J. Robert Duval and Peter T. Taylor, SU May 89 p181-197.

GPS Satellite Surveys and Vertical Control, David B. Zilkoski and Larry D. Hothem, SU May 89 p262-281.

GPS-Guided Vision Systems for Real-Time Surveying, Kam W. Wong, Anthony G. Wiley and Michael Lew, SU May 89 p243-251.

Integrated Processing of GPS and Gravity Data, Günter W. Hein, Alfred Leick and Steven Lambert, SU Feb. 89 p15-33.

Kinematic GPS Land Survey—Description of Operational Test and Results, David H. Minkel, SU Feb. 89 p121-137.

Kinematic Survey of Clinton Lake Dam, Clyde C. Goad, SU Feb. 89 p67-77.

Monitoring Crustal Deformation in Eastern Maine Using GPS Steven R. Lambert and David A. Tyler, SU Feb. 89 p138-148.

Global Positioning

Pipeline Deformation Monitoring Using GPS Survey Techniques, James F. McLellan, Todd R. Porter and P. St. J. Price, SU Feb. 89 p56-66.

Global positioning

Practical Applications of Global Positioning System, Bruce R. Blair, SU May 89 p218-222.

Recent Advances in Kinematic GPS Photogrammetry, James R. Lucas and Gerald L. Mader, SU Feb. 89 p78-92.

Global Positioning

Selection of GPS Receiver for Survey Applications, Ibrahim Al-Kadi, SU Feb. 89 p111-120.

Global positioning

Simultaneous Orbit and Network Adjustment in Tennessee, Yehuda Bock and Jonathan W. Ladd, SU Feb. 89 p34-45.

Strategic Planning Tool for GPS Surveys, Ronald R. Hatch and Earl V. Avery, SU May 89 p207-217.

Surveying With Motorola Eagle GPS Receiver, I. Newton Durboraw, III and Joseph C. Sligo, SU May 89 p252-261.

Global Positioning

Using Fish-Eye Lens for GPS Site Reconnaissance, J. E. Colcord, SU Aug. 89 p347-352.

Graph theory

Application of Graph Theory to Computer-Assisted Mapping, Xiao-Guang Qi and B. Kent Lall, SU Nov. 89 p380-389.

Gravity

Integrated Processing of GPS and Gravity Data, Günter W. Hein, Alfred Leick and Steven Lambert, SU Feb. 89 p15-33.

Grid systems

Estimating Pit Excavation Volume Using Unequal Intervals, Daniel W. Chambers, SU Nov. 89 p390-401.

Groundwater

GPS Determination of Ground Water Withdrawal Subsidence, William E. Strange, SU May 89 p198-206.

Groundwater depletion

GPS Determination of Ground Water Withdrawal Subsidence, William E. Strange, SU May 89 p198-206.

History

History and Method of Indian Allotment Surveys, Leroy K. Latta, Jr., SU Nov. 89 p362-372.

Indian reservations

History and Method of Indian Allotment Surveys, Leroy K. Latta, Jr., SU Nov. 89 p362-372.

Irregular boundaries

Irregular Boundary Area Computation by Simpson's 3/8 Rule, Ismat M. El Hassan, SU Oct. 87 p127-132.

Kinematics

GPS Geodesy and Kinematic Topography Measurements and Results, Georges Pierre Nard and Lynn Weems, SU May 89 p166-180.

Kinematic Survey of Clinton Lake Dam, Clyde C. Goad, SU Feb. 89 p67-77.

Recent Advances in Kinematic GPS Photogrammetry, James R. Lucas and Gerald L. Mader, SU Feb. 89 p78-92.

Kinematicsurveys

Kinematic GPS Land Survey—Description of Operational Test and Results, David H. Minkel, SU Feb. 89 p121-137.

Land surveys

Combined Photogeodesy and GPS Network, Leonard P. Wood, SU Feb. 89 p168-171.

Free Tension Concept for Precise Taping, Said M. Easa, SU Nov. 89 p418-421.

General Direct Method for Land Subdivision, Said M. Easa, SU Nov. 89 p402-411.

Land usage

History and Method of Indian Allotment Surveys, Leroy K. Latta, Jr., SU Nov. 89 p362-372.

Lattices

Estimating Pit Excavation Volume Using Unequal Intervals, Daniel W. Chambers, SU Nov. 89 p390-401.

Least squares method

Effect of Orbital A Priori Information on Baseline Determinations, Kamil Eren, SU Feb. 89 p149-159.

Leveling

Monitoring Crustal Deformation in Eastern Maine Using GPS, Steven R. Lambert and David A. Tyler, SU Feb. 89 p138-148.

Mapping

Analytical Solution of Magnetic Declination Problem, Said M. Easa, SU Aug. 89 p324-329.

Application of Graph Theory to Computer-Assisted Mapping, Xiao-Guang Qi and B. Kent Lall, SU Nov. 89 p380-389.

Developments of Geographic Information Systems Technology, Y. C. Lee and G. Y. Zhana, SU Aug. 89 p304-323.

GPS-Guided Vision Systems for Real-Time Surveying, Kam W. Wong, Anthony G. Wiley and Michael Lew, SU May 89 p243-251.

History and Method of Indian Allotment Surveys, Leroy K. Latta, Jr., SU Nov. 89 p362-372.

PMCAD: Photogrammetric-Based CAD System for Traffic Accident Mapping, T. K. Koo, SU Aug. 89 p330-336.

Mathematical models

Application of Graph Theory to Computer-Assisted Mapping, Xiao-Guang Qi and B. Kent Lall, SU Nov. 89 p380-389.

Mathematics

Estimating Pit Excavation Volume Using Unequal Intervals, Daniel W. Chambers, SU Nov. 89 p390-401.

Matrices, mathematics

Application of Graph Theory to Computer-Assisted Mapping, Xiao-Guang Qi and B. Kent Lall, SU Nov. 89 p380-389.

Measurement

Fundamentals of GPS Baseline and Height Determinations, James Collins, SU May 89 p223-235.

Measuring instruments

Engineering Applications of GPS Differential Surveying, Angela Beckmann, Hans-Jüurgen Larisch, Otmar Schuster and Klaus Barwinski, SU Aug. 89 p337-346.

Free Tension Concept for Precise Taping, Said M. Easa, SU Nov. 89 p418-421.

Microcomputers

PMCAD: Photogrammetric-Based CAD System for Traffic Accident Mapping, T. K. Koo, SU Aug. 89 p330-336.

Surveying With Motorola Eagle GPS Receiver, I. Newton Durboraw, III and Joseph C. Sligo, SU May 89 p252-261.

Minimal constraints

Free Net Analysis Under Squared Error Loss, Willie Tan, SU Nov. 89 p373-379.

Monitoring

Continuous Deformation Monitoring with GPS, Stephen R. DeLoach, SU Feb. 89 p93-110.

National Oceanic and Atmospheric Administration

Recent Advances in Kinematic GPS Photogrammetry, James R. Lucas and Gerald L. Mader, SU Feb. 89 p78-92.

Networks

Establishment of the Kansas City GPS Control Network, Robert L. Wethington and Joseph V. R. Paiva, SU May 89 p236-242.

Optimization models

Selection of GPS Receiver for Survey Applications, Ibrahim Al-Kadi, SU Feb. 89 p111-120.

Parameters

Important Parameters Used in Geodetic Transformations, Tomás Soler and Larry D. Hothem, SU Nov. 89 p414-417.

Photogrammetry

Differential GPS: Efficient Tool in Photogrammetry, Jan Willem van der Vegt, SU Aug. 89 p285-296.

PMCAD: Photogrammetric-Based CAD System for Traffic Accident Mapping, T. K. Koo, SU Aug. 89 p330-336.

Recent Advances in Kinematic GPS Photogrammetry, James R. Lucas and Gerald L. Mader, SU Feb. 89 p78-92.

Photographic analysis

Using Fish-Eye Lens for GPS Site Reconnaissance, J. E. Colcord, SU Aug. 89 p347-352.

Photography

Combined Photogeodesy and GPS Network, Leonard P. Wood, SU Feb. 89 p168-171.

Pipelines

Pipeline Deformation Monitoring Using GPS Survey Techniques, James F. McLellan, Todd R. Porter and P. St. J. Price, SU Feb. 89 p56-66.

Planning

Strategic Planning Tool for GPS Surveys, Ronald R. Hatch and Earl V. Avery, SU May 89 p207-217.

Public land

History and Method of Indian Allotment Surveys, Leroy K. Latta, Jr., SU Nov. 89 p362-372.

Quantitative analysis

Selection of GPS Receiver for Survey Applications, Ibrahim Al-Kadi, SU Feb. 89 p111-120.

Reconnaissance

Using Fish-Eye Lens for GPS Site Reconnaissance, J. E. Colcord, SU Aug. 89 p347-352.

Refraction

Strategic Planning Tool for GPS Surveys, Ronald R. Hatch and Earl V. Avery, SU May 89 p207-217.

Regional development

Establishment of the Kansas City GPS Control Network, Robert L. Wethington and Joseph V. R. Paiva, SU May 89 p236-242.

Regional planning

Establishment of the Kansas City GPS Control Network, Robert L. Wethington and Joseph V. R. Paiva, SU May 89 p236-242.

Risk

Free Net Analysis Under Squared Error Loss, Willie Tan, SU Nov. 89 p373-379.

Satellite mapping

Development of a GPS Active Control Point Station, See Hean Quek, M. Craymer, R. B. Langley, D. Parkhill, D. Arseneau, D. McArthur and K. Lochhead, SU Feb. 89 p46-55.

Practical Applications of Global Positioning System, Bruce R. Blair, SU May 89 p218-222.

Simultaneous Orbit and Network Adjustment in Tennessee, Yehuda Bock and Jonathan W. Ladd, SU Feb. 89 p34-45.

Using Fish-Eye Lens for GPS Site Reconnaissance, J. E. Colcord, SU Aug. 89 p347-352.

Satellite photography

Using Fish-Eye Lens for GPS Site Reconnaissance, J. E. Colcord, SU Aug. 89 p347-352.

Satellites

GPS Antenna Design Characteristics for High-Precision Applications, James M. Tranquilla and Bruce G. Colpitts, SU Feb. 89 p2-14.

GPS Satellite Surveys and Vertical Control, David B. Zilkoski and Larry D. Hothem, SU May 89 p262-281.

Important Parameters Used in Geodetic Transformations, Tomás Soler and Larry D. Hothem, SU Nov. 89 p414-417.

Simultaneous Orbit and Network Adjustment in Tennessee, Yehuda Bock and Jonathan W. Ladd, SU Feb. 89 p34-45.

Strategic Planning Tool for GPS Surveys, Ronald R. Hatch and Earl V. Avery, SU May 89 p207-217.

Surveying With Motorola Eagle GPS Receiver, I. Newton Durboraw, III and Joseph C. Sligo, SU May 89 p252-261.

Site evaluation

Using Fish-Eye Lens for GPS Site Reconnaissance, J. E. Colcord, SU Aug. 89 p347-352.

Stochastic process

Effect of Orbital A Priori Information on Baseline Determinations, Kamil Eren, SU Feb. 89 p149-159.

Strain gauges

Pipeline Deformation Monitoring Using GPS Survey Techniques, James F. McLellan, Todd R. Porter and P. St. J. Price, SU Feb. 89 p56-66.

Structural behavior

Free Net Analysis Under Squared Error Loss, Willie Tan, SU Nov. 89 p373-379.

Subdivisions

General Direct Method for Land Subdivision, Said M. Easa, SU Nov. 89 p402-411.

History and Method of Indian Allotment Surveys, Leroy K. Latta, Jr., SU Nov. 89 p362-372.

Subsidence

GPS Determination of Ground Water Withdrawal Subsidence, William E. Strange, SU May 89 p198-206.

Monitoring Crustal Deformation in Eastern Maine Using GPS, Steven R. Lambert and David A. Tyler, SU Feb. 89 p138-148.

Surveying

Analytical Solution of Magnetic Declination Problem, Said M. Easa, SU Aug. 89 p324-329.

Application of Graph Theory to Computer-Assisted Mapping, Xiao-Guang Qi and B. Kent Lall, SU Nov. 89 p380-389.

Development of a GPS Active Control Point Station, See Hean Quek, M. Craymer, R. B. Langley, D. Parkhill, D. Arseneau, D. McArthur and K. Lochhead, SU Feb. 89 p46-55.

Engineering Applications of GPS Differential Surveying, Angela Beckmann, Hans-Jüurgen Larisch, Otmar Schuster and Klaus Barwinski, SU Aug. 89 p337-346.

Establishment of the Kansas City GPS Control Network, Robert L. Wethington and Joseph V. R. Paiva, SU May 89 p236-242.

Fundamentals of GPS Baseline and Height Determinations, James Collins, SU May 89 p223-235.

GPS Antenna—Field Operation Aspects, David H. Minkel, SU Aug. 89 p297-303.

GPS Satellite Surveys and Vertical Control, David B. Zilkoski and Larry D. Hothem, SU May 89 p262-281.

GPS-Guided Vision Systems for Real-Time Surveying, Kam W. Wong, Anthony G. Wiley and Michael Lew, SU May 89 p243-251.

History and Method of Indian Allotment Surveys, Leroy K. Latta, Jr., SU Nov. 89 p362-372.

Strategic Planning Tool for GPS Surveys, Ronald R. Hatch and Earl V. Avery, SU May 89 p207-217.

Surveying With Motorola Eagle GPS Receiver, I. Newton Durboraw, III and Joseph C. Sligo, SU May 89 p252-261.

Surveys

Free Net Analysis Under Squared Error Loss, Willie Tan, SU Nov. 89 p373-379.

Selection of GPS Receiver for Survey Applications, Ibrahim Al-Kadi, SU Feb. 89 p111-120.

Strategic Planning Tool for GPS Surveys, Ronald R. Hatch and Earl V. Avery, SU May 89 p207-217.

Tension

Free Tension Concept for Precise Taping, Said M. Easa, SU Nov. 89 p418-421.

Timing

Strategic Planning Tool for GPS Surveys, Ronald R. Hatch and Earl V. Avery, SU May 89 p207-217.

Tracking

Using Fish-Eye Lens for GPS Site Reconnaissance, J. E. Colcord, SU Aug. 89 p347-352.

Traffic accidents

PMCAD: Photogrammetric-Based CAD System for Traffic Accident Mapping, T. K. Koo, SU Aug. 89 p330-336.

Traffic accidents analysis

PMCAD: Photogrammetric-Based CAD System for Traffic Accident Mapping, T. K. Koo, SU Aug. 89 p330-336.

Transformations

Important Parameters Used in Geodetic Transformations, Tomás Soler and Larry D. Hothem, SU Nov. 89 p414-417.

Trilateration

GPS Processing Methods: Comparison with Precise Trilateration, Norman Beck, J. Robert Duval and Peter T. Taylor, SU May 89 p181-197.

U.S. Army Corps of Engineers

Continuous Deformation Monitoring with GPS, Stephen R. DeLoach, SU Feb. 89 p93-110.

Visual aids

GPS-Guided Vision Systems for Real-Time Surveying, Kam W. Wong, Anthony G. Wiley and Michael Lew, SU May 89 p243-251.

Volume measure

Estimating Pit Excavation Volume Using Unequal Intervals, Daniel W. Chambers, SU Nov. 89 p390-401.

Precisionbin Cross-Sectional Area Calculations on Earthwork Determination, Youssuf M. Siyam, SU Oct. 87 p139-151.

AUTHOR INDEX

Al-Kadi, Ibrahim
Selection of GPS Receiver for Survey Applications, SU Feb. 89, p111-120

Arseneau, D.
see Quek, See Hean, SU Feb. 89, p46-55

Avery, Earl V.
see Hatch, Ronald R., SU May 89, p207-217

Barwinski, Klaus
see Beckmann, Angela, SU Aug. 89, p337-346

Beck, Norman
GPS Processing Methods: Comparison with Precise Trilateration, with J. Robert Duval and Peter T. Taylor, SU May 89, p181-197

Beckmann, Angela
Engineering Applications of GPS Differential Surveying, with Hans-Jüurgen Larisch, Otmar Schuster and Klaus Barwinski, SU Aug. 89, p337-346

Blair, Bruce R.
Practical Applications of Global Positioning System, SU May 89, p218-222

Bock, Yehuda
Simultaneous Orbit and Network Adjustment in Tennessee, with Jonathan W. Ladd, SU Feb. 89, p34-45

Chambers, Daniel W.
Estimating Pit Excavation Volume Using Unequal Intervals, SU Nov. 89, p390-401

Colcord, J. E.
Using Fish-Eye Lens for GPS Site Reconnaissance, SU Aug. 89, p347-352

Collins, James
Fundamentals of GPS Baseline and Height Determinations, SU May 89, p223-235

Colpitts, Bruce G.
see Tranquilla, James M., SU Feb. 89, p2-14

Craymer, M.
see Quek, See Hean, SU Feb. 89, p46-55

DeLoach, Stephen R.
Continuous Deformation Monitoring with GPS, SU Feb. 89, p93-110

Durboraw, I. Newton, III
Surveying With Motorola Eagle GPS Receiver, with Joseph C. Sligo, SU May 89, p252-261

Duval, J. Robert
see Beck, Norman, SU May 89, p181-197

Easa, Said M.
Analytical Solution of Magnetic Declination Problem, SU Aug. 89, p324-329
Free Tension Concept for Precise Taping, SU Nov. 89, p418-421
General Direct Method for Land Subdivision, SU Nov. 89, p402-411
disc. (of Irregular Boundary Area Computation by Simpson's 3/8 Rule, by Ismat M. El Hassan, SU Oct. 87, p127-132), SU Aug. 89, p355-356

disc. (of Precision in Cross-Sectional Area Calculations on Earthwork Determination, by Youssuf M. Siyam, SU Oct. 87, p139-151), SU Aug. 89, p356-359

El Hassan, Ismat M.
Irregular Boundary Area Computation by Simpson's 3/8 Rule, SU Oct. 87, p127-132
disc: Said M. Easa, SU Aug. 89, p355-356

Ezen, Kamil
Effect of Orbital A Priori Information on Baseline Determinations, SU Feb. 89, p149-159

Goad, Clyde C.
Kinematic Survey of Clinton Lake Dam, SU Feb. 89, p67-77

Hatch, Ronald R.
Strategic Planning Tool for GPS Surveys, with Earl V. Avery, SU May 89, p207-217

Hein, Günter W.
Integrated Processing of GPS and Gravity Data, with Alfred Leick and Steven Lambert, SU Feb. 89, p15-33

Hothem, Larry D.
see Soler, Tomás, SU Nov. 89, p414-417
see Zilkoski, David B., SU May 89, p262-281

Koo, T. K.
PMCAD: Photogrammetric-Based CAD System for Traffic Accident Mapping, SU Aug. 89, p330-336

Ladd, Jonathan W.
see Bock, Yehuda, SU Feb. 89, p34-45

Lall, B. Kent
see Qi, Xiao-Guang, SU Nov. 89, p380-389

Lambert, Steven
see Hein, Günter W., SU Feb. 89, p15-33

Lambert, Steven R.
Monitoring Crustal Deformation in Eastern Maine Using GPS, with David A. Tyler, SU Feb. 89, p138-148

Langley, R. B.
see Quek, See Hean, SU Feb. 89, p46-55

Larisch, Hans-Jüurgen
see Beckmann, Angela, SU Aug. 89, p337-346

Latta, Leroy K., Jr.
History and Method of Indian Allotment Surveys, SU Nov. 89, p362-372

Lee, Y. C.
Developments of Geographic Information Systems Technology, with G. Y. Zhang, SU Aug. 89, p304-323

Leick, Alfred
see Hein, Günter W., SU Feb. 89, p15-33

Lew, Michael
see Wong, Kam W., SU May 89, p243-251

Lochhead, K.
see Quek, See Hean, SU Feb. 89, p46-55

Lucas, James R.
Recent Advances in Kinematic GPS Photogrammetry, with Gerald L. Mader, SU Feb. 89, p78-92

McArthur, D.
see Quek, See Hean, SU Feb. 89, p46-55

McLellan, James F.
Pipeline Deformation Monitoring Using GPS Survey Techniques, with Todd R. Porter and P. St. J. Price, SU Feb. 89, p56-66

Mader, Gerald L.
see Lucas, James R., SU Feb. 89, p78-92

Minkel, David H.
GPS Antenna—Field Operation Aspects, SU Aug. 89, p297-303
Kinematic GPS Land Survey—Description of Operational Test and Results, SU Feb. 89, p121-137

Nard, Georges Pierre
GPS Geodesy and Kinematic Topography Measurements and Results, with Lynn Weems, SU May 89, p166-180

Paiva, Joseph V. R.
see Wethington, Robert L., SU May 89, p236-242

Parkhill, D.
see Quek, See Hean, SU Feb. 89, p46-55

Porter, Todd R.
see McLellan, James F., SU Feb. 89, p56-66

Price, P. St. J.
see McLellan, James F., SU Feb. 89, p56-66

Qi, Xiao-Guang
Application of Graph Theory to Computer-Assisted Mapping, with B. Kent Lall, SU Nov. 89, p380-389

Quek, See Hean
Development of a GPS Active Control Point Station, with M. Craymer, R. B. Langley, D. Parkhill, D. Arseneau, D. McArthur and K. Lochhead, SU Feb. 89, p46-55

Schuster, Otmar
see Beckmann, Angela, SU Aug. 89, p337-346

Siyam, Youssuf M.
Precision in Cross-Sectional Area Calculations on Earthwork Determination, SU Oct. 87, p139-151
disc: Said M. Easa, SU Aug. 89, p356-359

Sligo, Joseph C.
see Durboraw, I. Newton, III, SU May 89, p252-261

Soler, Tomás
Important Parameters Used in Geodetic Transformations, with Larry D. Hothem, SU Nov. 89, p414-417

Strange, William E.
GPS Determination of Ground Water Withdrawal Subsidence, SU May 89, p198-206

Tan, Willie
Free Net Analysis Under Squared Error Loss, SU Nov. 89, p373-379

Taylor, Peter T.
see Beck, Norman, SU May 89, p181-197

Tranquilla, James M.
GPS Antenna Design Characteristics for High-Precision Applications, with Bruce G. Colpitts, SU Feb. 89, p2-14

Tyler, David A.
see Lambert, Steven R., SU Feb. 89, p138-148

van der Vegt, Jan Willem
Differential GPS: Efficient Tool in Photogrammetry, SU Aug. 89, p285-296

Weems, Lynn
see Nard, Georges Pierre, SU May 89, p166-180

Wethington, Robert L.
Establishment of the Kansas City GPS Control Network, with Joseph V. R. Paiva, SU May 89, p236-242

Wiley, Anthony G.
see Wong, Kam W., SU May 89, p243-251

Wong, Kam W.
GPS-Guided Vision Systems for Real-Time Surveying, with Anthony G. Wiley and Michael Lew, SU May 89, p243-251

Wood, Leonard P.
Combined Photogeodesy and GPS Network, SU Feb. 89, p168-171

Zhang, G. Y.
see Lee, Y. C., SU Aug. 89, p304-323

Zilkoski, David B.
GPS Satellite Surveys and Vertical Control, with Larry D. Hothem, SU May 89, p262-281